



**OAKLAND ARTCC
FREEMONT, CALIFORNIA**

**ZOA ADMIN. WING
RESTROOM RENOVATIONS**

**MAIN FLOOR WOMEN'S RESTROOM (BIG PINK)
MAIN FLOOR MEN'S RESTROOM (BIG BLUE)
ADMIN WING FIRST FLOOR MEN'S RESTROOM
ADMIN WING FIRST FLOOR WOMEN'S RESTROOM
ADMIN WING SECOND FLOOR MEN'S RESTROOM
ADMIN WING SECOND FLOOR WOMEN'S RESTROOM
ADMIN WING SECOND FLOOR CONFERENCE MEN'S RESTROOM**

DIVISION 1

JULY 20, 2007

Prepared by: Federal Aviation Administration
ATO Tech Ops Engineering Services
Los Angeles Enroute Unit

SECTION 01100 - GENERAL REQUIREMENTS (APPLICABLE TO ALL SEVEN
RESTROOMS)

- 1.1 General : This "GENERAL REQUIREMENTS" Section 01100 is applicable to the work in all seven (7) restrooms, including the Main Floor Women's Restroom, Main Floor Men's Restroom, Admin Wing First Floor Men's Restroom, Admin Wing First Floor Women's Restroom, Admin Wing Second Floor Men's Restroom, Admin Wing Second Floor Women's Restroom, and Admin Wing Second Floor Conference Men's Restroom.
- A. Project Location:
- Oakland Air Route Traffic Control Center (ARTCC)
5125 Central Avenue
Fremont, California 94536.
- B. Scope of Work: These specifications, together with the referenced specifications, standards, and drawings specified in the Contract Documents, cover the requirements of the Federal Aviation Administration (FAA) for all work associated with the Bathroom Renovations project.
- C. Intent of Specifications: All material, labor and equipment required to perform the work shall be furnished by the Contractor. All work performed and all materials and equipment used shall be approved by the Contracting Officer (CO). This shall include, but not be limited to, testing, inspection, scheduling, reporting, and submittals.
- D. Titles: Titles to divisions and sections of the specifications and notes and titles on drawings referring to subcontractors, division of work by trade, or by type of work, are introduced merely for convenience in reading the specifications and drawings and do not imply any separate contractual arrangements of work assignments. Such separations into titled divisions and sections shall not operate to make the Government an arbiter to establish subcontract limits between the Contractor and subcontractors or between the subcontractors themselves.
- E. Contract Documents: The drawings, as listed in Part III, Section J, for the Architectural, Mechanical, Electrical, and Site Work, form a part of the construction requirements for this project.
- F. The renovation of the facility restrooms shall be in accordance with the lines and grades shown on the drawings. The Contractor shall not use dimensions scaled from drawings. All dimensions shown on the drawings shall be verified by the Contractor by actual measurements in the field.
- G. Precedence of Contract Documents: If any discrepancies between the contract provisions, the specifications, and the contract drawings appear, refer to contract clause 3.2.2.3-60, Specifications, Drawings and Material Submittals.
- H. Known Acceptable Sources: The use of the term "Known Acceptable Sources" and "Brand Name or Equal" in referencing a specific product or manufacturer is not intended to indicate a preference for the products mentioned, but indicates the quality and characteristics of products that will meet the Governments

requirements. Should the contractor decide to use a product other than that identified as a "Known Acceptable Source" or "Brand Name or Equal", the Contractor shall provide a submittal for this product. This does not relieve the Contractor from providing submittals for products or materials required in other sections of this specification.

1.2 Construction Limits and Access

- A. The Contractor shall confine operations, activities, storage of materials, and employee parking as indicated on the drawings. Any deviation from the drawings shall be coordinated with the (COR). Additional space the Contractor deems necessary shall be obtained off site at no additional cost to the government.
- B. Access route for the Contractor, Subcontractors, employees, deliveries, etc., shall be as indicated on the project drawings. Access to the construction site, parking areas and FAA loading dock area shall be kept unobstructed. Vehicles transporting materials shall not be loaded beyond the capacity prescribed by federal, state or local law. Obstruction of existing roadways, driveways, etc., to the ARTCC is strictly prohibited.

1.3 Security

- A. Contractor shall provide the COR with a daily list of all contractor personnel who will require access to the ARTCC. The list shall be submitted at least 24 hours prior to gaining admittance into the ARTCC. The list shall be kept current during the project and shall include the following:

- Full name including middle initial.
 - Telephone contacts
 - Employer

Any contractor employee whose name is not on the list will not be allowed entry to the facility. No exception will be granted.

- B. Prior to the start of work and at the direction of the Contracting Officer, the contractor shall provide the following documents to obtain FAA ID Card for each of his key employees, i.e. superintendent, foreman:

- (1 each) FD258, completed fingerprint charts - obtain prints from local police or sheriff's station.
 - (1 each) DOT F 1681, Application for FAA ID Badge.
 - (1 each) 2x2 colored photo - obtain at local one-hour studio, passport studio, or submit digital jpg file.

Allow fourteen (14) calendar days to process the application and issue the badges.

- C. Current procedures at FAA facilities include the right to search. If, in the judgment of the FAA security guard, a cause to search a vehicle or the person or personnel exist, such a search will be made.

- D. During construction, any doors or access to either the exterior of the building or a classified area that must remain unsecured for any reason shall not be left unattended by the contractor.
- E. Upon entering the grounds of the ARTCC, Contractor's personnel shall report to the FAA security guard and present a valid pictured identification. A temporary badge will be given to the personnel and shall be worn on the on an outside garment at all times while on the ARTCC premises. The badge shall be returned daily when such personnel leave the ARTCC premises.
- F. Contractor's personnel shall not violate any FAA security regulations. Violators may be removed from the premises with the right to reenter revocable. The FAA may perform security background checks on any or all Contractor's employees.
- G. The Contractor's employees may use the cafeteria, providing an escort is provided.

1.4 Facility Protection/Precautions.

- A. Construction/demolition shall in no way interfere with Air Traffic Control Operations. The ARTCC is a 24 hour, seven day a week facility. Extreme care shall be exercised so as not to cause any interference or interruption of service from this facility. Controller functions are vital to the safety of the flying public. It is absolutely mandatory that the contractor protects FAA personnel and existing FAA communication, electrical and mechanical equipment both inside and outside buildings from damaged caused by impact, water, debris or dust. The contractor shall have the overall responsibility for the performance and enforcement of all forms of protection within the ARTCC premises against any damages due to work performed under this contract. Any damages incurred, as a result of construction activity during the performance of this contract will be repaired/replaced immediately by the contractor at no cost to the FAA.
- B. Protection of existing floors, hallways, stairwell adjacent or leading to and from work areas: The Contractor shall protect existing floors adjacent to work areas from damages by the construction. Cover entire carpet/vinyl floors, stair, or hallway with mover's blankets, masonites, or vinyl tarps where dirty/wet foot traffic by the contractor may be during demolition, debris removal, and plumbing work. Vacuum the floor and hallway whenever construction debris or water is seen, and at end of each work shift. Keep floor and hallway dry and clean at all time. Provide clean and dry door mats at entrance for Contractor employees to dry and wipe their shoes when exiting into the clean area. Stains on carpet or vinyl floor due to negligence by the Contractor will be removed by the Contractor at his cost.
- C. Use air filtering machine inside the bathroom during demolition to reduce dust and to protect the Contractor employees. See also paragraph 1.6 C, Project Safety.
- D. Install carbon air filters on return grills to prevent dust from entering the ductwork during general construction. Remove when work is complete.

- E. The Contractor will exercise extreme care during removal of existing plumbing. There will be a great quantity of sewer in the pipes that need to be disposed properly. Drain all plumbing pipes dry before removal to prevent water from dripping onto the floor below. In addition, seal all floor openings and around existing floor drains or pipes before commencement of plumbing demolition.
- F. Protect any FAA equipments that are in the Basement and directly under the bathroom from water damage. Use plastic sheets for cover. Attach plastic sheets to under sides of ceiling and directly above where protection is required. Before securing the plastic sheets, check existing hangers, conduits, pipe, etc. that are supported from the ceiling for any indication that they may become loose, and secure them to prevent fall off from vibration. Be careful not to block ventilation in equipment by the plastic sheets.
- G. Demolition of existing tiled floors must be done in a manner so not to cause excessive vibration that may interfere with the air traffic operation, and or to cause possibility of damages to structural integrity of the concrete floor, and existing equipment in the adjacent areas including in the basement. The contractor is required to remove floor tiles using hand tools that do not generate excessive noise and vibration. The contractor is required to demonstrate and obtain approval by the Resident Engineer if any machine is proposed to use. If machine is approved for use, select machine that is equipped with built-in air filtering feature.
- F. The Contractor will provide additional ducted exhaust fans to remove odors out of the bathrooms if fouled air is detected in the adjacent areas. Coordinate with the COR for route of duct. See also 1.6 C.
- G. Coordinate with the Resident Engineer for temporary location of the contractor trash bins for general construction demolition materials. Do not block the loading dock at any time.
- H. Locate all plumbing behind walls, ceiling, floors, and test shut-off valves for leaks before beginning demolition of the existing plumbing.
- I. Provide MSDA for all chemicals to be used for approval by the Resident Engineer prior to bringing them into the facility.
- J. Coordinate with Honeywell for requirements for removal, relocation, and re-testing of existing Honeywell fire alarm panduits, conduits, and devices. Note that Honeywell system is proprietary and that any unauthorized work on its system will result in voidance of the system's warranty. The contractor will incorporate in his proposal the cost by Honeywell to do such work. Contact at Honeywell is as follows:

Honeywell Building Solutions
Attn: Mac Parfet
353-A Vintage Park Drive
Foster City, CA 94404
Office: (650) 918-3286
eFAX: (510) 217-3840
Cell: (510) 715-7311

mac.parfet@honeywell.com

- K. Supports and Bracing: All work, during all phases of construction shall be braced for Seismic Zone 4 forces per the latest Uniform Building Code (UBC).
- 1.5 Use of Facilities. All necessary water and power systems will be available for work within the ARTCC building for the use of the Contractor. The contractor shall verify the source of electrical power with the COR before he makes any connections. The Contractor shall be required to make any and all connections and disconnections at the completion of the project.
- 1.6 Project Safety: See Section 1200-1.3B&C for more details.
 - A. Safety Plan. The contractor shall submit to the Contracting Officer fourteen (14) days after award of contract an Accident Prevention Plan/Safety Plan/ Hazcom Plan. The plan shall be accepted by the Contracting Officer prior to start of work. The plan shall be site specific and contain as a minimum the following major elements: management commitment and employee involvement, work site analysis, hazard prevention and control, safety and health training.
 - B. Site Specific Activity Hazard Analysis. The contractor shall submit to the COR five (5) working days prior to start of work a Site Specific Hazard Analysis (Enclosure 1). The analysis shall identify for each phase of work the hazards for that activity and present the procedures and safeguards necessary to reduce the risk to an acceptable level. The analysis shall include the Material Safety Data Sheets (MSDS) for materials, chemicals, solvents etc., activity that will be performed.
 - C. Local exhaust ventilation shall be required to prevent migration of dust and fouled odors to FAA concern under consideration and submit as part of the safety requirements. See also section 01200 - OSHA Safety Requirements and Environmental Control.
 - D. The project work area, lay-down area and other adjacent surfaces used by the contractor shall be kept in clean, neat manner. Daily cleaning (or more if necessary) shall take place to prevent the accumulation of waste materials, rubbish, wind-blown debris, dust and odors resulting from construction operations. Contractor shall conduct cleaning and disposal operations to comply with local, state and federal codes, ordinances, regulations and anti-pollution laws. The contractor shall provide on-site containers for the collection of waste materials, debris and rubbish. FAA dumpsters/trash bins/trash cans shall not be used by the contractor.
- 1.7 Temporary Facilities. The contractor is allowed an area of approximately 20' x 40' for temporary staging. The location will be in the parking lot at the back of the main employee parking lot. Exact location will be determined by the facility and the Resident Engineer. No utilities are provided at that location.
- 1.8 Project Coordination. It shall be the duty of the Contractor to prepare a detailed schedule of work and work layout to resolve conflicts and to assure coordination of the work by different trades.

- A. Weekly Meeting. Coordination between the COR and Contractor shall take place weekly at the site. Special meetings will be scheduled if requested by either the COR or Contractor. The subjects to be discussed at the progress meetings shall included, but are not limited to, the following:

- Safety concerns/Issues
- Progress of Work
- Previous meeting action items/issues
- Field problems
- Material and Equipment delivery status
- Submittal status/schedules
- Progress planned during the upcoming week(s)
- Review of changes, and potential effects on the schedule
- Construction schedule revisions
- Schedule Revisions
- Other current business

The following persons will be expected to attend meetings; FAA COR, Prime Contractor Superintendent, Project Manager and Project Manager/Superintendents for other major trades.

- B. Facility Coordination Meeting. Weekly coordination meeting shall take place between the facility managers, COR and the Contractor's Project Superintendent.
- C. The contractor shall apply, pay fees, etc., to obtain permits and inspections as required. See Clause 3.2.2.3-47, Permits and Responsibilities. The contractor shall perform the construction in compliance with the most current editions of the Uniform Building code (UBC), Uniform Plumbing Code (UPC), Uniform Mechanical Code (UMC), and National Electric Code (NEC) in additional to the specifications and drawings. If the drawings and specifications exceed code requirements, the drawings and specifications govern. If the drawings and specifications do not meet code requirements, the Contractor shall notify the COR immediately in writing, so corrective action can be taken.

1.9 Working Hours.

- A. Unless otherwise stated, normal working hours shall be between 7:30 am and 4:00pm, Monday thru Friday (or as otherwise mutually agreed to at the site between the Contractor and COR), excluding all federal. Overtime, holiday and weekend work request if allowed shall be approved by the COR. The request for approval shall be forwarded to the COR at least 48 hours in advance.
- B. Construction activities that generate noises above 90 db, i.e. demolition and abatement of ceramic tiles from walls and floors, will be performed during night shift.
- C. Schedule night work for all plumbing demolition.

1.10 Construction Phasing Requirement:

The construction phasing will be as follows:

- A. Main Floor Women's (big Pink): start and complete. Contractor is required to build a temporary plywood wall to isolate the Women's floor new extension from the Main Men's before start of demolition and construction of the Main Floor Women's. This is to allow continuing use of the Main Floor Men's. This plywood wall will be removed when the finish wall is built.
- B. Main Floor Men's (big Blue): start and complete.
- C. The 2nd Floor Men's, 2nd Floor Women's, 1st Floor Men's, and 1st Floor Women's. The renovation of these four bathrooms replaces a great quantity of water, waste and vent piping. The drain piping should be replaced from top to bottom and thus the second floor projects should be accomplished prior to the first floor projects in the Admin Wing. Also, within these four projects, the piping for the first and second floors is included with the two men's restroom projects. The piping for both the women's and men's restrooms on a particular floor can be accessed during the construction of the men's restroom project.
- D. Admin Wing Second Floor Conference Men's Restrooms: start and complete.

OAKLAND CENTER (Enclosure 1)

Activity Hazard Analysis

Subcontractor ____ Yes ____ No ____ N/A

Whom: _____

Activity Being Performed: _____

Proposed Dates of Work: _____ To: _____

Description of Activity: _____

Location on Project: _____

MSDS on Site: ____ Yes ____ No ____ N/A

MSDS Read: ____ Yes ____ No ____ N/A

MSDS Recommendations: _____

Standard Safety Protocol: _____

Potential Hazards: _____

Proposed Controls Above Standard Protocols: _____

Submitted by: _____ Print Name: _____

Reviewed by: _____ Print Name: _____

Air Traffic Representative: _____ Print Name: _____

Airway Facility Rep: _____ Print Name: _____

END OF SECTION 01100

SECTION 01200 - OSHA SAFETY REQUIREMENTS AND ENVIRONMENTAL CONTROL –
APPLICABLE TO ALL SEVEN RESTROOMS

PART 1 – GENERAL: This SECTION 01200 is applicable to work in all seven restrooms.

1.1 GENERAL: The Contractor shall comply with the latest Occupational Safety and Health Administration (Federal OSHA) regulations regarding safety in the work area (Reference - 29 CFR). The Contractor shall also comply with all applicable Federal and State laws and regulations concerning human health and environmental protection, including those pertaining to air and water pollution, and the disposal of solid and hazardous wastes, substances and materials. This section is intended to cover limited requirements of the Federal OSHA Construction Standard and the Environmental Protection Agency's pollution regulations. The Contractor is not relieved from adhering to other environmental and health and safety requirements not listed hereinafter, including applicable State and local requirements. The Contractor shall consult the latest referenced State, local, EPA and OSHA documents for pertinent regulations. The contractor shall submit to the Contracting Officer's Representative (COR) or Lead Project Engineer (LPE) a HAZARD ANALYSIS for each new construction activity, a PROJECT-SPECIFIC HEALTH AND SAFETY PLAN (hereafter "Safety Plan") and PROJECT-SPECIFIC HAZARD COMMUNICATION PLAN (hereafter "Hazcom Plan") prior to the commencement of any site work.

1.2 APPLICABLE FEDERAL DOCUMENTS:

Labor (OSHA) 29 CFR, Part 1926 *Safety and Health Regulations for Construction*
Labor (OSHA) 29 CFR, Part 1910 *Occupational Safety and Health Standards*
Environmental Protection Agency 40 CFR, Parts 100-780 *Protection of Environment*

1.3 GENERAL SAFETY PROVISIONS:

- A. Contractor Responsibility: The Contractor shall not permit any employee to work in a construction area or perform duties under working conditions which are unsanitary, hazardous, or dangerous to the health and safety of the employee. (*Reference: OSHA, 29 CFR - General Duty Clause*)
- B. Safety Plan: The Contractor shall bear the responsibility for promptly submitting a written project-specific safety plan, and for maintaining a safety program sufficient to meet all job requirements, as confirmed through frequent and regular inspections of the job site, materials, and operation of equipment by a competent person so designated by the employer. The Safety Plan shall be made available within the work area at all times, and include (but not be limited to) the following elements:
 - 1. A weekly construction safety meeting with the Contractor and the COR. During the weekly safety meeting with the COR, the hazard analysis will be reviewed prior to commencement of each new significant phase of construction (e.g. trenching/shoring, crane operations, demolition, etc.). that details the particular hazards involved and outlines protective measures proposed.

2. Maps and lists showing the type and location of personal protective equipment, fire extinguishers, First Aid stations, emergency evacuation procedures, and ingress/egress routes, etc.
3. Checklists for daily onsite safety inspections. There shall be one checklist for inspecting the site at the end of the working day. The Contractor shall use a systematic approach to inspections that employs a written checklist that is kept on permanent record.
4. Work site posting of phone numbers for the COR, Ambulance, Hospital, Police and Fire Departments (along with a route map to each), near designated telephone locations that are accessible to all construction personnel.
5. A brief plan to effectively and safely react to lightning, heavy rains/flooding, high winds, earthquakes, or other such natural disasters.
6. A written accident investigation procedure to effectively determine the cause of reportable incidents, and a protocol to communicate corrective measures to others.
7. A complete and accurate listing of all hazardous chemicals, compounds or construction materials shall be provided along with their respective Material Safety Data Sheets (MSDS's). This information shall be readily accessible to all construction and Employer personnel.
8. A procedure to supply local or general exhaust ventilation of appropriate flow rate to ensure an odor-free, safe work zone and surrounding employer workspace. The Contractor shall be responsible for ensuring that no noxious, objectionable or otherwise harmful fumes, vapors, mists, dusts or odors are emitted into the work area. The plan shall be prepared by a competent person skilled in calculating the airflow needed based on the chemistry of the materials involved. To prepare a plan, the competent person shall have the licenses and/or certificates required by the state in which the project is occurring.
9. Prior to using any new material (chemical), the contractor shall submit a chemical-specific exhaust ventilation plan that, as a minimum, establishes the exhaust ventilation to be used for each chemical in the specific locations where it is intended. The chemical-specific exhaust ventilation plan shall include the calculations used to determine the flow rate to maintain concentrations below the odor threshold concentration, or 50% of the PEL (whichever is the lessor), such that no odors are detectable by smell at a distance of twenty-five (25) feet from the source. The Contractor shall notify the COR prior to using or applying any construction chemicals or compounds that may generate fugitive fumes, vapors, mists, dusts or odors, and must specify and implement an appropriate exhaust ventilation strategy. Should such an incident occur, the Employer may issue an immediate "Stop Work Notice". In such an event, the Contractor shall be liable for all associated work stoppage costs.
10. The safety plan shall include the following daily safety inspections: Morning (before work begins), noon, and at the end of the work day.

- C. **MINIMUM REQUIREMENTS:** The following items (at a minimum) shall be provided on the construction site (if applicable) and/or specifically addressed in detail in the written safety plan:
1. A workplace Hazard Analysis (see Section 1100-1.6B) of each new construction activity. Each Hazard Analysis is to be reviewed by the FAA prior to initiating construction activity. The Hazard Analysis shall include ventilation plans, MSDS sheets, and specification of personal protective equipment (including hard hats, protective footwear, eye protection, respiratory protection, work gloves and hearing protection), as needed.
 2. The proper size and class of fire extinguishers in all work areas.
 3. A First Aid plan, including list of trained personnel, supplies and equipment available, location of eyewash and/or shower, emergency transportation arrangements and maintaining a first aid case log.
 4. Appropriate signs, signals and barricades are erected in the construction zone(s).
 5. Ensure electric hand tools are in good working condition and properly grounded. Maintain regular inspection records.
 6. Employ lock-out/tag-out procedures when working on all electric power transmission and distribution lines and devices.
 7. Provide proper crane, hoist and lift operations within their safe lifting capacities. Address all overhead hazards, including power lines and other obstructions, and ensure adequate operator training and certification.
 8. Ensure ladders and scaffolds are in good working condition, and are of the proper size and type for the task undertaken.
 9. Scaffolding must be complete and in new (or like new) condition with sills, base plates, leveling jacks, cross bracing, scaffold grade lumber, guard rails, and toe boards, and that safe access is provided.
 10. Personnel will be tied off with an approved personal fall arrest system (fall protection) when working at, on or near building roof edges or other elevated structures.
 11. Hazardous chemicals shall be properly labeled, stored, controlled and disposed of by the contractor.
 12. Empty containers of caulk, adhesive, waterproofing, epoxy, paint and similar materials which previously contained hazardous chemicals or compounds shall be disposed of onsite into closed, air-tight waste containers to preclude fugitive odors from being emitted into the construction zone.
 13. Permit-required confined space entry (if applicable) shall only be conducted by suitably trained and equipped personnel, and only after making advance request notification to the Resident Engineer (RE).

14. Provide the Contractor's Asbestos Control Program and Lead Abatement plans. Ensure their consistency with the requirements of FAA's Lead Action Plan (LAP) and Compliance Action Plan (CAP).
 15. Provide documentation regarding the Contractor's Hearing Conservation Program.
 16. Provide for proper shielding and protective clothing when work is conducted near energized radar emitters.
 17. Observe proper safety rules and procedures when using any form of welding, cutting, brazing, heat bonding, including gas, arc or electric welding work (hot work). All construction areas where hot work is conducted must have a dedicated "fire watch" individual assigned. Post separate fire watch individuals on all floors below a construction area when working over open grate utility chases, conduit or cable-tray runs.
 18. Ensure that the work area is policed daily (or more often) to keep area safe from debris and potential physical hazards.
 19. The Contractor is cautioned to consult the City's municipal codes for construction noise abatement hours.
- 1.4 **USE OF EQUIPMENT:** The use of any machinery, tool, material, or equipment shall be in compliance with OSHA regulations. The employer shall permit only those employees, qualified by training or experience, to operate equipment and machinery.
 - 1.5 **WORKER PROTECTION:** The Contractor shall provide adequate protection for the head, ears, and eyes for all employees and visitors entering an area where such hazards may exist. (*Consult Subpart E of OSHA, 29 CFR 1926; and 1910.132 for complete requirements*)
 - 1.6 **TOOLS:** All hand tools, power tools, and similar equipment (whether furnished by the Contractor or the employee) shall be maintained in a safe working condition. The use of such tools shall be limited to the intended use of said tools. (*Consult Subpart I of OSHA, CFR 1926 for additional requirements*)
 - 1.7 **ELECTRICAL:** The Contractor shall furnish Ground Fault Protection for all electrical equipment used on the job site. Installation, modernization or refurbishment of FAA facilities often requires work around energized electrical circuits. The Contractor shall protect against electrical shock by methods such as posting warning signs, supplying insulated gloves, instituting "lock-out/tag-out" procedures to de-energize circuits, or other approved methods. (*Consult Subpart K of OSHA, 29 CFR 1926 for additional requirements*)
 - 1.8 **EARTHWORK:** N/A
 - 1.9 **HAZCOM PLAN:** The Contractor shall provide a PROJECT-SPECIFIC HAZCOM PLAN to the COR, LPE or RE prior to commencing site work. The HAZCOM plan shall be prepared in accordance with 29 CFR, Part 1910.1200 - Federal Hazard Communications [HAZCOM] Standard, which requires that information, training, and record keeping provisions be implemented to ensure that all potentially affected employees are made

aware of pertinent "right to know" requirements associated with chemicals and other materials that are used, stored, or brought into the work place. The written plan shall include but not limited to the following information:

- A. Provide a name for the responsible HAZCOM person.
- B. Provide the name of the person responsible for updating the MSDS's.
- C. Provide the name of the person responsible for "LABELING" all material on site.
- D. Provide the name of the person responsible for training employees.
- E. Provide the name of the person responsible for the Contingency Plan.
- F. Provide the name of the person responsible of disseminating information to the FAA HAZCOM Point of Contact within 24 hours.
- G. Provide the training and records of employees trained in hazardous materials management (HAZMAT).
- H. Provide the training and records of employees trained in HAZCOM.
- I. Provide an MSDS for each and all chemicals brought on site.
- J. Provide a notebook to the COR with all the MSDS's to be kept at the project site.
- K. Written procedures for the introduction of unanticipated chemicals at the job site.
- L. Provide a written contingency plan that includes "stop-work" trigger parameters of all of the specified hazardous substances/materials to be utilized on this project.

1.10. ENVIRONMENTAL CONTROLS DURING CONSTRUCTION:

- A. Air Pollution: The Contractor shall keep his operations free from dust as specified in applicable Federal and State laws. In storing and handling cement, the Contractor shall prevent the discharge of dust into the atmosphere. The emission of smoke, dust, fume, mist, vapor or other air pollutant from construction equipment or operations shall be controlled to applicable State and Local standards. The Contractor shall be responsible for securing the most recent State and Local air pollution regulations, and shall be liable for (and indemnify the Employer from) any damage or nuisance claim caused by the negligent maintenance and control of dust, smoke, fumes, vapors or mists.
- B. Water Pollution: The Contractor shall not deposit at, or in the general vicinity of, any FAA work site any amount of solid, liquid or hazardous waste (e.g. fuels, lubricants, bituminous waste, or other pollutant) in a manner which may contaminate (or lead to contamination) a body of groundwater, surface water or ephemeral pool. The Contractor shall also comply with all applicable Federal, State and Local erosion control standards and regulations.
- C. Hazardous Material and Waste: The Contractor shall be responsible for the proper use, storage, transportation, and disposal of all solid and hazardous substances, materials and wastes in accordance with applicable Federal, State and Local environmental rules and regulations, including local fire and municipal codes. The Contractor shall be liable for (and indemnify the Employer from) any damage or nuisance claim caused by the negligent maintenance and control of hazardous substances, materials or wastes used during the course of construction. The Contractor shall arrange for the legal disposal of all construction wastes, including any requisite pre-disposal sampling and analysis. The Employer shall remain responsible for signing all hazardous waste manifest documents as the Generator.

PART 2 – PRODUCTS

- 2.1 MATERIALS: Materials shall be in accordance with the requirements of the individual sections of these specifications.
- 2.2 MATERIALS CONTAINING ASBESTOS: No materials or products which contain asbestos in any form may be used on this project.
- 2.3 LEAD FREE PAINT, PLUMBING AND FLASHING MATERIALS: Only lead free paint, plumbing and flashing materials may be used on this project.

END OF SECTION 01200